

PRECAST CONCRETE **WEATHERS THE STORM**

Impact testing of precast concrete insulated sandwich wall panels show that precast concrete provides significantly more protection against flying debris, which often becomes projectiles or missiles during a tornado or hurricane than other building materials, such as wood, steel, brick and vinyl siding. Tests were conducted by the Precast/Prestressed Concrete Institute (PCI) and the Portland Cement Association (PCA) on various wall assemblies with the impact of a 2x4 wood stud traveling at 100 mph, the equivalent of wind-borne debris during a tornado or hurricane with 250 mph winds. Of all materials tested, only the precast concrete design stopped the debris from penetrating the wall, demonstrating the resiliency of precast concrete.



Gotcha Covered



Gotcha Covered is a full-service home design and remodeling center that is comprised of a combined 11,865 square feet of retail showroom, offices, and warehouse storage. About half of the facility's square footage consists of reception, retail showroom and office spaces – including 1,175 square feet of second level open office and breakroom space. Opposite the offices is the 5,930

square foot warehouse and loading dock.

With a business based in the residential design and construction industry, members of the family owned Gotcha Covered were familiar with various structural material options for this project. The owners already had experience with a former tilt-up concrete facility, so the inherent durability of concrete construction influenced their decision to explore plant cast insulated precast-prestressed concrete wall panels.

With consideration given to site limitations and overall desired construction schedule, 10" insulated precast-prestressed concrete wall panels were selected for the building's exterior as well as for the interior separation of the retail and office space from the storage warehouse. Concrete Industries produced approximately 13,750 square feet of 10" insulated precast wall panels utilizing a structural grey concrete with a form finish exterior and smooth trowel interior.

Once erected, the panels received a two-color painted exterior finish with aluminum

cladding and an architectural stone wainscoting for additional detail and texture to the façade. Additionally, the owner elected to leave the interior precast face exposed in all areas, simply painting the surface within the retail showroom and offices.

Designed with durability and sustainability in mind, Gotcha Covered is a structure that will stand the test of time for the next generation. Precast concrete insulated wall panels not only provide long term durability and minimal foreseeable maintenance, but they also produce a building envelope that yields recognizable returns on energy efficiency.

Architect: **Design Associates of Lincoln, Inc.**

Engineer: **Lange Structural Group**

Contractor: **SNB Construction II, Inc.**

Owner: **Gotcha Covered**

Precaster: **Concrete Industries, Inc.**

Location: **Lincoln, NE**

Year of Completion: **2020**



www.concreteindustries.com

SICK, Inc.



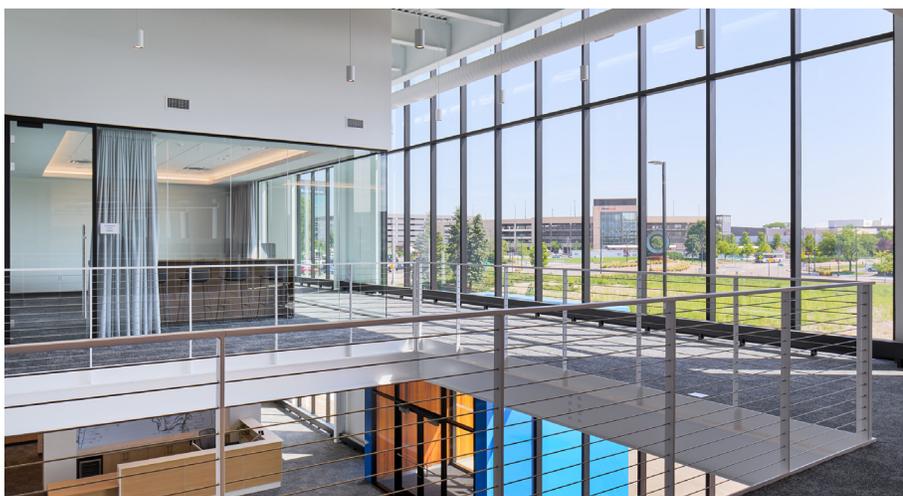
SICK, a global designer and manufacturer of sensors and sensor solutions for industrial applications, sought to expand and consolidate their North American operations into one 550,000 square foot campus in Bloomington, MN, close to their smaller existing headquarters. Due to the size of the updated campus, the \$100 million project will be constructed in four phases over the next 15 years. Once complete, the campus will include office space, production and manufacturing, warehousing, parking ramps, and additional space for projected future

expansion needs. Phase one of the project increased manufacturing space by 40% and consisted of the construction of a new 138,000 square foot office area and facility for sensor production and logistics.

For the exterior of the structure, Wells produced and erected load-bearing architectural precast concrete walls that are nearly 40 feet tall. The charcoal-colored monolithic design utilizes six different patterns with a variety of polished concrete, sandblast, and acid etch finishes, randomly

placed around the building to create visual interest for the long horizontal structure. Complemented by large reaching windows, the multi-patterned finish disguises joints and provides a stunning and unique exterior.

Because of the architectural wall panels' load bearing capabilities, there is no frame required to place behind the walls. This provided SICK a cost-effective solution to their building needs, while keeping the large multi-phase development on schedule. With additional phases yet to come, this project has an exciting future ahead of it, and Wells will continue to provide building solutions to help SICK, Inc. in future development plans.



Architect: **Clow Berg, Inc.**
Engineer: **Meyer | Borgman | Johnson**
Contractor: **Ancoats**
Owner: **SICK, Inc.**
Precaster: **Wells**
Precast Specialty Engineer: **Wells**
PCI Certified Erector: **Wells**
Image Credits: **Clow Berg, Inc.**
Location: **Bloomington, MN**
Year of Completion: **2022**

 **WELLS**
www.wellsconcrete.com

A Fortune 500 Financial Services Organization



Opaque spandrel glass elegantly framed by Silver Shadow stone draws eyes toward this eight-story corporate center, beautifully reflecting the picturesque upper Midwest skies that grace downtown Minneapolis. The \$125 million headquarters for a Fortune 500 financial services organization connects

downtown Minneapolis' emerging eastern core with the growing Elliot Park and East Town neighborhoods.

A two-story pavilion at the base of the main tower welcomes residents and visitors into a spacious lobby, which features a café, a chapel/meditation room, and an art gallery. The public areas tap into the city's downtown skyway system from the second floor, and an all-glass eight-story stair tower encourages connection and ongoing collaboration among more than 1,000 employees.

The architect and contractor considered multiple glass and metal panel options during the design phase but chose precast concrete for its cost-effective value and durability. The Gage Brothers design assistance team connected the architect with various suppliers to find the perfect stone, even arranging a private tour of the stone quarry so the architect could select

the exact color and texture desired.

Gage Brothers provided nearly 23,000 square feet of insulated precast concrete panels for the project, including special L-shaped pieces offering smooth corners without the need for caulking. "Insulated precast panels provided a solid vapor barrier and an all-encompassing building component that eliminated the need for additional sub-contractors while speeding up critical path analyses." - Bill Blanski, Design Principal, HGA

Architect: **HGA**
Engineer: **HGA**
Contractor: **McGough Construction**
Precaster: **Gage Brothers**
PCI Certified Erector: **McGough Construction**
Image Credits: **Corey Gaffer © Gaffer Photography**
Location: **Minneapolis, MN**
Year of Completion: **2020**

Gage
Brothers

www.gagebrothers.com



North Scott Community YMCA



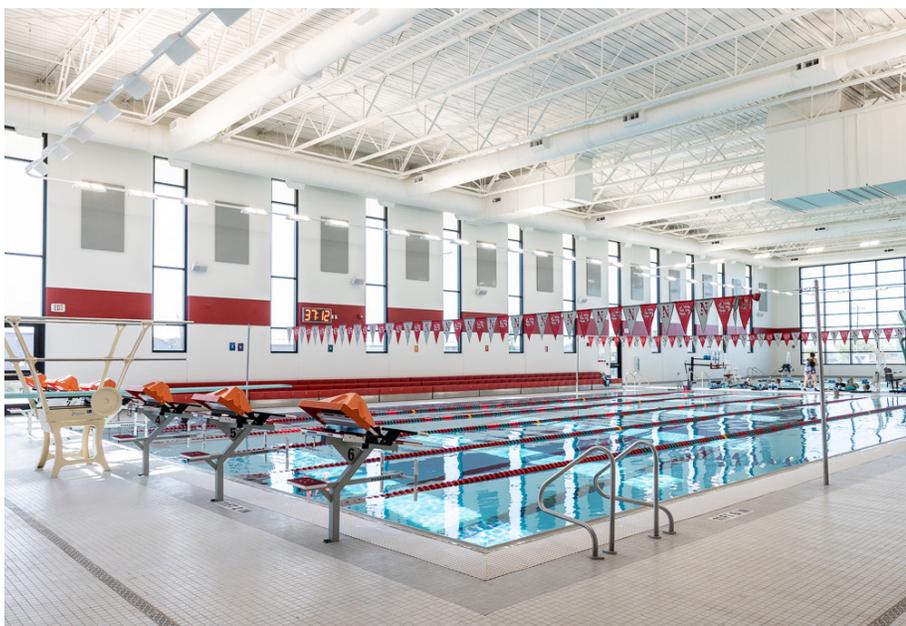
North Scott Community School District and the City of Eldridge, Iowa partnered to create a new fitness center. The center is now home to the North Scott swim team and is a resource for the entire community. Legat Architects designed the facility to include a lobby, gym, and a natatorium complete with a competition pool, family recreational pool,

and kiddie pool. The facility's upper level hosts a weight room, track, and a dance/yoga studio.

Due to its many structural and architectural benefits, precast concrete was chosen for this project. Advanced Precast Company manufactured 20,000 square feet of 12"

insulated architectural precast concrete wall panels that were used on this 43,500-square-foot project. The 86 wall panels were up to 60 feet tall and weighed 70,000 pounds.

The exterior's beautiful aesthetic was created via the use of thin brick and a medium sandblast exterior finish. Utilizing thin brick increased production efficiency while achieving a beautiful architectural finish. The medium sandblast finish was chosen to add texture to enhance the aesthetic appeal of the thin brick.



Architect: **Legat Architect**
Engineer: **McRae Engineering, Inc.**
Contractor: **Russell Construction**
Owner: **North Scott Community School District**
Precaster: **Advanced Precast Company**
Precast Specialty Engineer: **Beton-Stahl**
PCI Certified Erector: **Cedar Valley Steel**
Location: **Eldridge, IA**
Year of Completion: **2022**



www.advanceprecastcompany.com

Midland Garage Door Company



For over 40 years, Midland Garage Door Company has been manufacturing the longest-lasting, smoothest-running residential and commercial overhead garage doors. Along with variety and beauty, their doors are rugged and dependable. Which explains why when a new office and warehouse facility was needed, precast concrete, which is also known for its durability, was the material of choice!

The new facility, which is nearly double the size of the previous building, features an improved layout, expanded inventory capacity, and seven additional CPU service bays.

Coreslab Structures (Omaha) Inc. manufactured 124 insulated precast concrete wall panels for the project. Speed of construction, and the ability to build

quickly during the winter months, were just some of the reasons precast concrete was chosen for the project. The 48,600 square feet of insulated precast concrete wall panels utilized formliners and a buff-colored concrete with a light sandblasted finish.

Architect: **GP Architecture**
Engineer: **Sandman Structural Engineers**
Contractor: **Lund-Ross Constructors**
Owner: **Midland Garage Door Company**
Precaster: **Coreslab Structures (Omaha) Inc.**
Precast Specialty Engineer: **Coreslab Structures (Omaha) Inc.**
PCI Certified Erector: **Atlas Steel Erection**
Location: **Springfield, NE**
Year of Completion: **2023**

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